New [Developments]in the Theory (Cont.)   SOV/5556

Card 13/14

FUKLEV, V.A.

Continuous tapping of cupola cast iron. Izv.vys.ucheb.zav.; chern.
met. 6 no.1:153-159 '63.   (MIRA 16:2)

1. Sredne-aziatskiy politekhnicheskiy institut.
   (Cast iron—Metallurgy)   (Cupola furnaces)

FUKLEV, V.A.; OSAK, A.A.; SUBKHANKULOV, F.F.; TULYAGANOV, E.Kh.;
KLEYMAN, N.M.

Operation of a basic gas cupola with a refractory bed charge.
Lit proizv. no.6:35-36 Je '64.   (MIRA 18:5)

FUKRA J.

CZECHOSLOVAKIA/Nuclear Physics - Physical Base of Nuclear and   C
Thermonuclear Technology.

Abs Jour   : Ref Zhur Fizika, No 1, 1960, 617

Author   : Fukra, J.
Inst   :
Title   : Conference on Problems of Nuclear Technology Held in
Prague on 28 - 30 January 1959.

Orig Pub   : Jaderna energie, 1959, 5, No 3, 105-106

Abstract   : No abstract.

Card 1/1

FUKS, A.A.

Ca

PROCESSES AND PROPERTIES INDEX

Investigation of the methods of working up both raw
and dried potato mash into alcohol. A. Fuks, V. Zh.
Yuteev and P. Danilenko. Brodil'naya Prom. 11, No
5, 8-11; Chem. Zentr. 1930, I, 1828. - The method of
Luhder, Lampe and Kilp (cf. C. A. 25, 1327) for drying
potatoes was rechecked, as was the fermentation of the
products. When the chopped potatoes (mash) were sub-
jected to a pressure of 5 atms. 72.3% of moisture remained,
at 10 atms., 62.6%; and at 50 atms. 58.8%. The pressed
out liquors contained N compds., salts and starch.
Centrifuging produced the same results as pressing at 5
atms. In the fermentation of the raw mash the alc.
yield can be increased by the addn. of the expressed liquors.
Mashes from dried potato pulp of high concn. ferment
poorly. Mashes of low concn. give a poor alc. yield.
A previous grinding of the pulp to a meal has a beneficial
effect.
M. G. Moore

16

A.S.M.S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

FUKS, A. A., A. L. MALCHENKO, G. I. FERTMANCH.

Tekhnologiya Spritovogo Proizvodstva. (Technology of Spirit Production) Posmertnoye Izd. Moskva, Pishchepromizdat, 1951. 583 P. Illus., Tables, Diagrs. "Literatura": P. 573

So: N/5
     729.81
     .F9

KRYSANOV, V.I., inzh.; FUKS, A.I., inzh.; EL'YASBERG, M.Ye., inzh.

Technical and economic analysis of the dimensional spacing of
machine tools. Vest. mashinostr. 45 no.5:70-75 My '65.

(MIRA 18:6)

FUKS, A.S.

From practices in the operation of the Odessa Chronium Plant.
Kozh.-obuv.prom. 3 no.7:31-32 Jl '61.   (MIRA 14:9)
    (Odessa--Wage payment systems) (Tanning)

FUKS, A.

Wages based not on the operation but on the finished product.
Sots. trud 8 no.2:113-115 F '63.   (MIRA 16:2)

1. Nachal'nik otdela legkoy i tekstil'noy promyshlennosti
normativno-issledovatel'skoy laboratorii po trudu, Odessa.
                    (Odessa—Wages—Leather industry)

FUKS, B. A.

"Experience With the Administration of Novocain and Morphine For Prevention of Operation Shock," Voyenno-Med. Zhur., No. 11, p. 71, 1955.

FUKS, B.A.; BURKOV, Yu.A.

Using sand-jet perforation in the southern Raduy area. Nefteprom.
del., no.2:22-23 '64.   (MIRA 17:4)

1. Gosudarstvennyy trest po geologicheskim izyskaniyam na neft'
v Vostochnoy Sibiri.

GINZBURG, E.L.; SAMSONOV, V.V.; FUKS, B.A.

Prospecting gas fields in the Irkutsk amphitheatre. Neftegaz.
geol. i geofiz. no.10:22-25 '64   (MIRA 18:1)

1. Gosudarstvennyy trest po geologicheskim izyskaniyam na neft'
v Vostochnoy Sibiri.

FUKS, B.A.

O preobrazovaniyakh, ostavlyayushchikh dannuyu gruppu invariantnoy, I, tomsk, izv.
N II Matem. 1 Mekh, Un-ta, 1:1 (1935), 57-68.

SO: MATHEMATICS IN THE USSR, 1917-1947
      edited by Jurosh, A. G.
      Markushevich, A. L.
      Rashovskiy, P. K.
      Moscow-Leningrad, 1948

FUKS, B. A.

Ueber einige eigenschaften der pseudokonformen abbildung. Matem. SB., 1 (43), (1936), 561-574.

SO: Mathematics in the USSR, 1917-1947
     edited by Jurosh, A. G.
     Markushevich, A. L.
     Rashevskiy, P. K.
     Moscow-Leningrad, 1948

FUKS, B. A.

Ueber geodasische mannigfaltigkeiten einer bei pseudokoformen abbildungen invarianten riemannschen geometrie. Matem. SB, 2 (44), (1937), 567-594.

SO: Mathematics in the USSR, 1917-1947
    edited by Jurosh, A. G.
    Markushevich, A. L.
    Rashevskiy, P. K.
    Moscow-Leningrad, 1948

Fuchs, B. Sur la fonction minimale d'un domaine. II. Rec. Math. [Mat. Sbornik] N.S. 16(60), 329–346 (1946). (Russian. French summary)

[For part I see the same Rec. N.S. 16(58), 2: –38 (1945); these Rev. 7, 55.] Let $z = [K_B(t, t)]^? M_B(z, t, t)$, $= [T_B(t, t)]^{-1}[\partial \log M_B(z, t, t)/\partial t]$, where $K_B(z, t)$ is the kernel function, $M_B(z, t, t) = K_B(z, t)/K_B(t, t)$ the minimal function, and $T_B(t, t) = \partial^2 \log K_B/\partial t \partial t$, map a given domain B into its minimal and representative domains, respectively. If the domain is simply-connected, the minimal and the representative domains are both circles.) The metric ... and ... are ... with respect to conformal transformations ... ... curvature of certain curves connect ... ... the point ... and ... the ... ... Finally, let S_t be the distance (in the ... between t and z. The author determines ... such that ... if ... If ... ... a neighborhood of t such that, for every ...

Mathematical Reviews.   Vol   ... 7

Similar inequalities can be obtained where we substitute for S_t the distance in metric A_t and for z the minimal function of the domain. The above generalizations of the lemma of Schwarz-Pick are of interest because they can be extended to the case of the theory of mapping of four-dimensional domains by pairs of functions of two complex variables and, on the other hand, as has been shown by Bergman [Amer. J. Math. 68, 20–28 (1946), these Rev. 7, 286] and Schiffer [see the preceding review], these functions are connected in a simple manner with functions mapping the domain into a ... ... Further ... applications ... be made ... one assumes that z and z approach the boundary ... W ... [Mat. ... Appl. ... 22, 25–51 (1949). ... ...

Fuks, B. A.

Fuks, B. A. Cauchy's integral formula in the theory of analytic functions of several complex variables. Uspehi Matem. Nauk (N.S.) 2, no. 3(19), 142–157 (1947). (Russian)

The author gives a review of generalizations (by Bergman, Bochner, A. Weil and others) of Cauchy's integral formula to the case of several complex variables and of some related questions. In the opinion of the reviewer the article does not give a true picture of the topic. The Cauchy formula is an integral expression reproducing analytic functions in the case of one variable, its kernel is independent of the domain, this is no longer the case for several variables. Since, in addition, the integration has to be carried out over special surfaces or hypersurfaces these formulae lose considerably in value as means of investigation when we pass to several variables. On the other hand there exist other methods in several variables which lead to the desired results. This situation is not clarified in the review, which has only a compilatory and formal character. The author does not even discuss the relation of the generalized Cauchy formulae to other residue formulae, not to mention their relations to the generalized Green's formulae, etc. Some essential bibliographical data are missing, e.g., the author does not indicate that formulae expressing the function in terms of its value on the boundary hypersurface and on the distinguished boundary surface were given by Bergman [Revista Ci. Lima 43, 675–682 (1941); 44, 131–140, 377–394 (1942), in particular p. 389 these Rev. 6, 140; Jber. Deutsch. Math. Verein 42, 238–252 (1933), respectively]; he cites only later papers.   K. Zarankiewicz.

Source: Mathematical Reviews.   Vol 10 No. 4

Fiks, B.A.

*Fuks, B. A., and Šabat, B. V. Funkcii kompleksnogo
peremennogo i nekotorye ih priloženija. [Functions of
a Complex Variable and Some of Their Applications].
Gosudarstv. Izdat. Tehn.-Teor. Lit., Moscow-Leningrad,
1949. 383 pp.

This is a rather elementary introductory text which does
not discuss theoretical details, but treats in a very detailed
manner such topics as evaluation of integrals and special
conformal mappings, with a profusion of applications to
problems in electrostatics, hydrodynamics and heat flow.

R. P. Boas, Jr. (Evanston, Ill.).

Source: Mathematical Reviews,   Vol 12, No. 2.

FUKS, B. A.

21344   FUKS, B. A. Ob uchebnykh posobiya kh po matematike dlya zaochnikou.
         Uspekhi matem. Nauk, 1949, Vyp. 3, S. 190-94.

         SO: 'Ietopis' Zhurnal'nykh Statey, No. 29, Moskva, 1949.

1. FUKS, B. A. AND SHABAT, B. V.

2. USSR (600)

4. Physics and Mathematics

7. Functions of A Complex Variable and Some of Their Applications,
    B.A. Fuks and B. V. Shabat. (Moscow-Leningrad, State Technical
    Press, 1949). Reviewed by A. F. Leontbev, Sov. Kniga, No. 1, 1950.

9. FDD Report U-3081, 16 Jan. 1953, Unclassified.

FUKS, B.A.

Fuks, B. A. Natural boundaries of analytic functions of complex variables. Uspehi Matem. Nauk (N.S.) 5, no. 4(38), 75-120 (1950). (Russian)

This paper is a review, accompanied by proofs, of well-known results about natural boundaries of analytic functions of several complex variables, results initiated by Hartogs [Math. Ann. 62, 1-88 (1906)] and continued by Thullen [ibid. 106, 64-76 (1932)], Cartan and Thullen [ibid., 617 (1932)], and Oka [Jap. J. Math. 17, 517 521, 523 531 (1941); Tôhoku Math. J. 49, 15 52 (1942); these Rev. 3, 85; 7, 290]. The connections with the kernel function of Bergman are not discussed.   — A. Zygmund

Source: Mathematical Reviews,

FUKS, B. A.

Fuks, B. A. Neevklidova geometriya v teorii konformnyh i psevdokonformnyh otobraženil. [Non-Euclidean geometry in the theory of conformal and pseudo-conformal mappings.] Gosudarstv. Izdat. Tehn.-Teor. Lit., Moscow-Leningrad, 1951. 148 pp. 5.20 rubles.

The present work is one of a series of small volumes, each devoted to an exposition of some aspect of non-Euclidean geometry. The author's principal emphasis is on Bergman's theory of the invariant metric and the relation of this theory to the classical portions of non-Euclidean geometry and conformal mapping. The material is self-contained, and is well-developed in the author's usual lucid style. However, the work suffers considerably because of the conspicuous absence of new material which has been developed over the past ten years by numerous writers and which serves to relate in a striking manner the theory of the kernel function and the invariant metric with potential theory [cf. Bergman, The kernel function and conformal mapping, Amer. Math. Soc., New York, 1950; these Rev. 12, 402].

Chapter 1 presents the development of Bergman's kernel function through the use of complete orthonormal complex analytic systems. The invariant metric is introduced, and the generalized lemma of Schwarz-Pick is proved. In chapter 2, the author establishes several differential-geometric characterizations of the invariant metric, and then turns to classical questions of Lobatchewskian geometry: groups of motions, distances, axioms of congruence, parallelism. Chapter 3 considers the geometry of automorphic functions. In chapter 4, the study of the lemma of Schwarz-Pick is resumed. Applications are made to Julia's distortion theorem. In chapter 5, the author turns to pseudo-conformal transformations of the space of two complex variables. The kernel function $K_D(z_1, z_2; \bar{z}_1, \bar{z}_2)$ is introduced, and by its means, Bergman's invariant metric

$$ds^2 = \sum_{m, n=1}^{2} T_{mn} dz_m d\bar{z}_n; \quad T_{mn} = \frac{\partial^2 \log K_D}{\partial z_m \partial \bar{z}_n}.$$

Finally, questions of curvature and infinitesimal transformations are discussed.   P. Davis.

Source: Mathematical Reviews,   Vol 13 No. 9

FUKS, B. A.

PHASE I   TREASURE ISLAND BIBLIOGRAPHICAL REPORT   AID 625 - I

BOOK   Call No.:   AF451006
  Author: FUKS, B. A. and LEVIN, V. I.
  Full Title: FUNCTIONS OF A COMPLEX VARIABLE AND THEIR APPLICATIONS
  Transliterated Title: Funktsii kompleksnogo peremennogo i nekotoryye
                         ikh prilozheniya
PUBLISHING DATA
  Originating Agency: None
  Publishing House: State Publishing House of Technical and
                     Theoretical Literature
  Date: 1951   No. pp.: 307   No. of copies: 15,000
  Editorial Staff: None
PURPOSE: The book is written for engineers and students of higher
    technical colleges who wish a closer acquaintance with the theory
    of functions of a complex variable and its application to the solu-
    tion of technical and physical problems in mathematical analysis.
TEXT DATA
  Coverage: In the preface, the authors mention that this book is co-
    related with Funktsii kompleksnogo peremennogo i nekotoryye ikh
    prilozheniya (1949), by B. A. Fuks and B. V. Shabat and both are
    necessary to give the reader a knowledge of the principles of the
    theory and its special applications. The book is divided into five

Funktsii kompleksnogo peremennogo i nekotoryye   AID 625 - I
ikh prilozheniya

chapters, subdivided into 30 sections. Chapters I and II are writ-
ten by B. A. Fuks, chapters III and IV by V. I. Levin and chapter V
by both authors jointly. Chapter I covers preliminary information
and properties of algebraic functions in the vicinity of regular and
singular points, and series development; chapter II, differential
equations and analytical functions; chapter III, Laplace's differen-
tial equations, formula, and transformation; chapter IV, contour in-
tegration and asymptotic developments; chapter V, Hurwitz' problem
for polynomials, which is essential in many applications. The book
contains 29 figures and diagrams.
No. of References: A few Russian sources are given in the text and
footnotes.
Facilities: None

2/2

FUKS, B. A.

(1)
4

Mathematical Reviews
Vol. 15 No. 2
Feb. 1954
Analysis

$9-10-54$
LL

Fuks, B. A. Natural boundaries of analytic functions of complex variables. Amer. Math. Soc. Translation no. 93, 59 pp. (1953).
  Translated from Uspehi Matem. Nauk (N.S.) 5, no. 4(38), 75-120 (1950); these Rev. 12, 252.

USSR/Mathematics - Conformal representation   FD-1176

Card 1/1   Pub. 118-17/30

Author   : Fuks, B. A.

Title   : Variation of lengths and directions under pseudoconformal transformations

Periodical : Usp. mat. nauk, 9, No 3(61), 193-200, Jul-Sep 1954

Abstract   : The author shows how directions and lengths change under the following
               transformation: $W=W(w, z)$, $Z=Z(w, z)$, which are functions of complex
               variables w and z and regular at the point $P(w_0, z_0)$ and whose Jacobian
               $J(w, z)$ is different from zero at this point. He also shows how the
               modulus and argument of the Jacobian $J(w_0, z_0)=J$ are connected with these
               changes. Two references, both the author's (Teoriya analiticheskikh
               funktsiy mnogikh kompleksnykh peremennykh [Theory of analytical functions
               of many complex variables], State Technical Press, 1948. "Ueber einige
               Eigenschaften der pseudokonformen Abbilding," Mat. sbor., 1(1936)).

Institution :

Submitted   : November 21, 1953

FUKS, B. A.

FUKS, B. A. Funkcje zmiennej zespolonej i niektore ich zastosowania. (Tlum. Ryszard Bittner. Redaktor Julian Bonder) Warszawa, Panstwowe Wydawn. Naukowe, 1954. 349 p. (Functions of a complex variable and their application. Tr. from the Russian. diagrs.) RPB   Not in DLC

FUKS, B. A.
SCIENCE
Poland
.
So: East European Accession, Vol. 6, No. 5, May 1957

USSR/Mathematics - Conformal transformations   FD-1177

Card 1/1   Pub. 118-18/30

Author   : Fuks, B. A.

Title   : Conditions for pseudoconformality in the transformation of four-
                dimensional space

Abstract   : In this article the author assumes particular forms for the equations
                of transformation $W=W(w,z)$, $Z=Z(w,z)$, which determine a mutually unique
                differentiable representation of a certain neighborhood of a point
                $P_0(w_0,z_0)$ onto a certain neighborhood of a corresponding point $P_0'(W_0,Z_0)$.
                He then finds the conditions upon the parameters in these equations of
                transformation that ensure pseudoconformal transformations, namely in
                the form of three theorems. One reference (the author's own article
                preceding this one in the same issue).

Institution :

Submitted   : November 21, 1954

Fuks, B. A.

Fuks, B. A. The geometric meaning of the argument of the Jacobian of a pseudoconformal mapping in the space of n complex variables. Uspehi Mat. Nauk (N.S.) 10 (1955), no. 1(63), 179–182. (Russian)
Let (*) $w_k = w_k(z_1, \cdots, z_n)$ $(k=1, \cdots, n)$ be regular at the point $P(z_1^0, \cdots, z_n^0)$, and let the Jacobian $J = J(z_1, \cdots, z_n)$ be different from 0 at P. The author studies the linear mapping $\varpi_k = \sum_{s=1}^{n} a_{ks} z_s$ $(k=1, \cdots, n)$ associated with (*), where $a_{ks} = (\partial w_k / \partial z_s)_P$, and shows that if the roots λ_s $(s=1, \cdots, n)$ of the equation $\det(a_{sr} - \lambda \delta_{sr}) = 0$ are all of modulus 1, $\lambda_s = e^{i\theta_s}$, then $\theta_1 + \cdots + \theta_n = \arg J$ (mod π).

A. J. Lohwater (Helsinki).

Fuks, B.A.

16(o)

PHASE I BOOK EXPLOITATION   SOV/3177

Matematika v SSSR za sorok let, 1917-1957. tom 1: Obzornyye stat'i (Mathematics in the USSR for Forty Years, 1917-1957) Vol 1: Review Articles) Moscow, Fizmatgiz, 1959. 1002 p. 5,500 copies printed.

Ed: A. G. Kurosh, (Chief Ed.), V. I. Bityutskov, V. G. Boltyanskiy, Ye. B. Dynkin, O. Yo. Shilov, and A. P. Yushkevich; Ed. (Inside book); A. P. Lapko; Tech. Ed.: S. N. Akhlamov.

PURPOSE: This book is intended for mathematicians and historians of mathematics interested in Soviet contributions to the field.

COVERAGE: This book is Volume I of a major 2-volume work on the history of Soviet mathematics. Volume I surveys the chief contributions made by Soviet mathematicians during the period 1917-1957; Volume II will contain a bibliography of major works since 1917 and biographic sketches of some of the leading mathematicians. This work follows the tradition set by two earlier works: Matematika v SSSR za pyatnadtsat' let (Mathematics in the USSR for Fifteen Years) and Matematika v SSSR za tridtsat' let (Mathematics in the USSR for 30 Years). The book is divided into the major divisions of the field, i.e., algebra, topology, theory of probabilities, functional analysis, etc., and contributions and outstanding problems in each discussed. A listing of some 1800 Soviet mathematicians is included with references to their contributions in the field.

FUKS, B.A.

SUBJECT   USSR/MATHEMATICS/Theory of functions   CARD 1/1   PG - 531
AUTHOR   FUKS B.A.
TITLE   Some new results in the theory of analytic functions of
             several variables.
PERIODICAL   Uspechi mat.Nauk 11, 5, 85-93 (1956)
             reviewed 1/1957

Starting from the formulation of two Cousin's problems the author describes
the development of the theory of functions of several variables. It is
interesting that among the mentioned fundamental results there is no Russian
result.

INSTITUTION: Moscow.

BERRI, R.Ya., dotsent; KOZYLYAYEV, P.A., dotsent; LUNTS, G.L., dotsent;
    LIBIN, M.L., starshiy prepodavatel'; ROZENTAL', M.I., assistent.
    Prinimali uchastiye: FUKS, R.A., prof.; VOYEYKOVA, S.V., dotsent;
    KOZITSIN, V.I., dotsent; TEUSH, V.L., dotsent. ANOSHINA, K.I.,
    red.; KUZ'MINA, N.S., tekhn.red.

[Higher mathematics; instructions and control problems for students
specializing in agriculture, fish culture, and forestry in upper-
level correspondence schools (departments)] Vysshaia matematika;
metodicheskie ukazaniia i kontrol'nye zadeniia dlia studentov sel'-
skokhoziaistvennykh, rybokhoziaistvennykh i lesokhoziaistvennykh
spetsial'nostei zaochnykh vysshikh uchebnykh zavedenii (fakul'tetov).
Pod red. G.L.Luntsa. Moskva, Gos.izd-vo "Sovetskaia nauka," 1958.
90 p.   (MIRA 12:4)

1. Russia (1923- U.S.S.R.) Ministerstvo vysshego obrazovaniya.
Metodicheskoye upravleniye.
                          (Mathematics)

FUKS, Boris Abramovich, prof.; BAKHSHIYAN, F.A., prof.; ANDRIYEVSKIY,
     F.P., dotsent; MIROSHKOV, R.K., dotsent; NAGAYEVA, V.M., dotsent;
     SOBOLEV, N.A., dotsent; SOKOLOV, A.M., dotsent; SHAPIRO, Z.Ya.,
     dotsent; SHUSHARA, G.N., dotsent; KAPLAN, I.B., starshiy pre-
     podavatel'; POLOZKOV, A.P., starshiy prepodavatel'; POLOZKOV,
     D.P., starshiy prepodavatel'; TOPAZOV, N.G., starshiy prepoda-
     vatel'; SHCHERBAKOV, S.S., starshiy prepodavatel'; Prinimali
     uchastiye: GOL'DENVEYZER, A.L., prof.; BARANENKOV, G.S., dotsent;
     BERMAN, Ya.R., dotsent; LUNTS, G.L., dotsent; SHESTAKOV, A.A.,
     dotsent; GMURMAN, V.Ye., starshiy prepodavatel'; Rozental', M.I.,
     assistent; SOKOLOVA, L.A., assistent. ROZANOVA, G.K., red.izd-va;
     KUZ'MINA, N.S., tekhn.red.   (Continued on next card)

FUKS, Boris Abramovich--(continued)   Card 2.
    [Higher mathematics; methodological instructions and control
    assignments for the students of correspondence technical
    schools of university level] Vysshaia matematika; metodi-
    cheskie ukazaniia i kontrol'nye zadaniia dlia studentov zaochnykh
    vysshikh tekhnicheskikh uchebnykh zavedenii. Izd.9. Pod red.
    B.A.Fuksa. Moskva, Gos.izd-vo "Sovetskaia nauka," 1958. 179 p.
                                        (MIRA 12:9)

    1. Russia (1923- U.S.S.R.) Ministerstvo vysshego obrazovaniya.
    Metodicheskoye upravleniye.
          (Mathematics--Study and teaching)

FUKS, B.A.

3-58-6-3/34

AUTHOR: Kuz'min, B.A., Candidate of Technical Sciences, Dotsent,
            Fuks, B.A., Professor, Doctor of Physico-Mathematical Sciences

TITLE: Attended Courses   Are Also Required (Nuzhny i ochnyye zan-
            yatiya)

PERIODICAL: Vestnik Vysshey Shkoly, 1958, Nr 6, p 16-19 (USSR)

ABSTRACT: The idea of the combined correspondence-resident system of
            schooling without an interruption in work, which has been
            practiced rather widely, is to organize practical and laboratory
            exercises at the training-consultation points, located at the
            students' place of work, for 6 to 7 months each year for 12
            hours per week. Attendance at these lectures and other exer-
            cises is not obligatory. The organization of such exercises
            presupposes that a considerable number of correspondence
            students are concentrated at one place and that they study
            one or several related specialities. These exercises require
            the presence of instructors, equipped class rooms and laboratories.
            The author opposes the view of higher correspondence school
            workers, maintaining that the combined correspondence-resident
            system of study contradicts the nature of correspondence

Card 1/2

Attended Courses Are Also Required   3.-48-6-3/34

schooling. He further points out that, notwithstanding the
growing significance of the training-consultation points,
this important link has so far not found the Ministry's due
recognition. The author also contradicts reproaches to the
effect that the correspondence-resident system of training
without ceasing work, repeats the evening form of education.
He considers it the most flexible and acceptable one for the
workers of heavy industry and large enterprises.

ASSOCIATION: Vsesoyuznyy zaochnyy mashinostroitel'nyy institut (All-Union
Machine Construction Correspondence Institute)

Card 2/2

16(1)   PHASE I BOOK EXPLOITATION   SOV/2336

Fuks, Boris Abramovich, and Boris Vladimirovich Shabat

Funktsii kompleksnogo peremennogo i nekotoryye ikh prilozheniya
    (Functions of Complex Variables and Some of Their Applications)
    2d ed. Moscow, Fizmatgiz, 1959. 376 p. (Series: Fiziko-
    Matematicheskaya biblioteka inzhenera) 20,000 copies printed.

Ed.: M. L. Smolyanskiy; Tech. Ed.: Ye. A. Yermakova.

PURPOSE: This book is intended for students and Aspirants of vtuses
    and also for engineers and scientists working on the application
    of mathematics to physics and mechanics.

COVERAGE: This book discusses in detail the fundamental concepts of
    the theory of functions of a complex variable. Among the topics
    covered are complex numbers, analytic functions, conformal mapping,
    elementary functions, and regular functions. Various applications
    of the theory are also discussed, such as applications to plane
    vector fields, to the theory of residues, representation of
    functions by line integrals, etc. The book places great emphasis
    on practical applications of the theory, and many examples and
Card 1/9

Functions of Complex (Cont.) SOV/2336

problems are included. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

Card 2/9

Functions of Complex (Cont.)   SOV/2336

Card 5/9

Functions of Complex (Cont.)   SOV/2336

Card 6/9

Functions of Complex (Cont.)   SOV/2336

Card 7/9

Functions of Complex (Cont.)   SOV/2336

Card 8/9

PART III

Fuks, B. A. (Moscow). On the Normal Functions of a Region	287
Fuks, B. A. (Moscow). Stereographic Projection in a Space of n Complex Variables and Some of Its Applications	294
Ivanov, V. I. (Sverdlovsk). On the Characteristics of the Growth of Entire Functions of Many Complex Variables	301
Ronkin, L. I. (Khar'kov). On Complete Systems and Bases in Spaces of Analytic Functions of Many Complex Variables	305
Ronkin, L. I. (Khar'kov). On the Solutions of One Type of Differential Equations Connected With Entire Functions of Two Complex Variables	316

PART IV

Ozhigov, F. B., and I. M. Mel'nik (Borisov-Dom). On Contour Regularities in the Cauchy-Riemann Boundary Value Problem of the Theory of Analytic Functions	324
Dzrbasyan, B. H. (Erevan). On the Conformal Mapping of a Multiconnected Region	332
Akmel'yev, L. A. (Kazan'). Dirichlet Variation of a Gas Profile	335
Ozhigov, F. B., and I. G. Shamkoy (Borisov-Dom). On Hilbert's Boundary Value Problem for a Multiconnected Region	340
Gamm, H. A. (Tbilisi). On a Certain Application of Cauchy-Type Multiple Integrals	345
Mel'nik, I. M. (Minsk). On One Method of Constructing Piecewise Analytic Functions Connected With Filtration Theory	353
Bagmy, AL. T. (Borisov-Dom). Conformal Mapping of Class Region	358
Macharadze, O. P. (Tbilisi). Approximate Solution of Boundary Value Problems of the Theory of Analytic Functions	365
Mikar, L. A. (Moscow). Problems of the Monogenic Interpretation of a Function of a Complex Variable and the Cauchy Problem	371

IL'YUKHINA, N.P.; FUKS, B.A.

      Variegated Cretaceous sediments in the Kan-Tasejevo depression.
      Trudy VSEGEI   66:107-115 '61.   (MIRA 15:4)
           (Yenisey Ridge--Geology, Stratigraphic)

FUKS, Boris Abramovich; AYZENBERG, L.A., red.; MURASHOVA, N.Ya., tekhr.
red.

[Theory of analytic functions of several complex variables]Teoriia
analiticheskikh funktsii mnogikh kompleksnykh peremennykh. Izd.2.
perer. i dop. Moskva, Fizmatgiz. Vol.1. [Introduction to the theory
of analytic functions of several complex variables] Vvedenie v teoriiu
analiticheskikh funktsii mnogikh kompleksnykh peremennykh. 1962.
418 p.   (MIRA 15:7)
          (Functions of complex variables)

FUKS, Boris Abramovich

[Special chapters of the theory of anrlytical functions
of several complex variables] Spetsial'nye glavy teorii
analiticheskikh funktsii mnogikh kompleksnykh peremennykh.
Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1963. 427 p.
(MIRA 18:5)

FUKS, Boris Abramovich; AYZENBERG, L.A., red.; ZARUTSKAYA, V.V.,
red.; PLAKSHE, L.Yu., tekhn. red.

[Theory of analytic functions of several complex variables]
Teoriia analiticheskikh funktsii mnogikh kompleksnykh pe-
remennykh. Izd.2., perer. i dop. Moskva, Fizmatgiz.
Vol.2. [Special chapters on the theory of analytic functions
of several complex variables] Spetsial'nye glavy teorii ana-
liticheskikh funktsii mnogikh kompleksnykh peremennykh. 1963.
427 p.   (MIRA 16:10)
                    (Functions, Analytic)

FUKS, Boris Abramovich; SHABAT, Boris Vladimirovich; BAYEVA, A.P.,
_ _ _ red.

    [Functions of complex variables and some of their applica-
tions] Funkt lii kompleksnogo peremennogo i nekotorye ikh pri-
lozheniia. Izd.3. Moskva, Izd-vo "Nauka," 1964. 387 p.
                           (MIRA 17:6)

KARASEV, I.P.; ZOLOTOV, A.N.; POSTNIKOV, V.G.; FUKS, B.A.

Some problems in the field prospecting of fractured carbonate reservoir rocks in the Markovo oil field. Trudy VNII no.43: 144-156 '65.   (MIRA 18:6)

FUKS, B.B.; SHISHKIN, G.S.

Principles and methods of the histochemical analysis of enzymes.
Arkh. anat., gist. i embr. 44 no.6:103-113. Je '63.
(MIRA 17:7)
1. Laboratoriya gistokhimii (zav. - doktor med. nauk B.B. Fuks)
Instituta eksperimental'noy biologii i meditsiny Sibirskogo ot-
deleniya AN SSSR, Novosibirsk.

FUKS, B. B.

Jul/Aug 53

USSR/Medicine - Regeneration Tissues

"Correlation Between Direct and Indirect Cell Division During Regeneration of the Endothelium of the Eye," B.B. Fuks (Stalinsk)

Usp Sov Biol, Vol 36, No 1 (4), pp 100,101

Investigation of the process of regeneration of the corneal endothelium in frogs, rabbits, and humans, after mechanical injury, demonstrated that mitosis predominates at the height of regeneration. Karyokinetic division of nuclei of the 2-nucleus cells points to the possibility of mitosis succeeding amitosis. Amitosis provides physiological regeneration of the endothelium of the cornea and aids in its restoration after injury. Uniform amitosis predominates during physiological regeneration. In this respect, the process differs from that of pathological regeneration. The generally accepted, but false, Weismann-Morgan theory maintains that tissues produced by amitosis are inferior since no proper, uniform

(over)

FUKS, B.B., kandidat meditsinskikh nauk (Novosibirsk, Krasnyy pr., 11 kv.2)

Characteristics of growth of growth of mouse ascites carcinoma in
the eye in rabbit and guinea pig. Vop.onk. 1 no.3:83-88 '55.

(MLRA 10:1)

1. Iz kafedry patologicheskoy anatomii Stalinskogo IUV (zaveduyushchiy
kafedroy - doktor meditsinskikh nauk A.G.Varshavskiy)
     (EYE, neoplasms,
          mouse ascites carcinoma, growth in guinea pigs & rabbits)
     (NEOPLASMS, experimental,
          mouse ascites carcinoma, growth in guinea pigs & rabbits)

FUKS, B.B.

833. THE STRUCTURE AND VIABILITY OF STORED CORNEAL ENDOTHELIUM
(Russian text) - Fuks B. B. - ZH. OFTALM. 1956, 4 (240-242)

A strip of endothelium was removed from the posterior surface of the cornea taken from a freshly sacrificed rabbit. After this the cornea was stored in the blood serum of the same rabbit at 4° for 1-7 days. The cornea was kept in a thermostat (37°) for 48 hr. Following culturing, sections were prepared from the cornea and stained by haematoxylin. It was found that corneal epithelium preserved viability and the ability to 'epithelialize' the posterior surface of the cornea for up to 4 days of storage. A distinctive rearrangement of the tissue under investigation connected with processes of growth and multiplication of cells throughout the whole endothelial layer was noted.   (S)

USSR / Human and Animal Morphology. Nervous System.   S-2
      Peripheral Nervous System.

Abs Jour: Rof Zhur-Biol., 14, 1958, 64817.

Author : Fuks, B. B.
Inst   : Not given.
Title : Concerning the formation of Nerve Fiber Plexuses
         in the Wall of Blood Vessels by Traumatic Neuroma.

Orig Pub: V sb.: Vopr. travmatol, ortopedii i vosstanovit.
         khirurgii. 2. Novosibirsk, 1957, 216-221.

Abstract: Histological and histochemical studies were made
         of 100 human neuromas of 6 mos. to 18 yrs. dur-
         ation and neuromas after 60 experiments on dogs,
         rabbits and cats (2 to 18 mos. after section of
         the sciatic nerve). It has been shown that around
         the vessels of old traumatic neuromas in man and
         animals, and in their outer coating, friable plexuses

Card 1/2

USSR / Human and Animal Morphology.   Nervous System.   S-2
     Peripheral Nervous System.

Abs Jour: Ref Zhur-Biol., No 14, 1958, 64817.

Abstract: of thin pulp-free fibers are formed. Their ap-
        pearance is connected with the periodic flare-ups
        of regenerative changes of the fibers in the neu-
        romas. The elements of the walls of the vessel
        and of the fibers of the nerve plexus do not con-
        tain alkali, but do contain active acid phospho-
        monoesterase. The fluctuation of pressure in the
        vascular network of the neuroma and the pulsation
        of the blood vessels may lead to the irritation of
        the fibers of the neuroma as well as of the fibers
        of the nerve plexuses in the vascular wall.

Card 2/2

USSR / Human and Animal Morphology.   Nervous System.   S-2
    Peripheral Nervous System.

Abs Jour: Ref Zhur-Biol., No 14, 1958, 64816.

Author : Fuks, B. B.
Inst   : Not given.
Title   : Data concerning Histochemistry and Histology of
    Perineurial Sheaths in Traumatic Neuroma.

Orig Pub: V Sb. : Vopr. travmatol., ortopedii vosstamovit.
    khirurgii. 2. Novosibirsk, 1957, 222-230.

Abstract: A histological and histochemical study was made
    of 100 cases of traumatic neuroma in humans of
    one and a half months to 18 years duration, and
    neuromas principally of the sciatic nerve of 63
    dogs, cats, and rabbits, one day to 18 months
    after experimental trauma. In 10 experiments on
    dogs, a chronic lymphovenous congestion was pro-
    duced by means of a subcutaneous ligature of the

Card 1/3

USSR / Human and Animal Morphology.   Nervous System.   S-2
      Peripheral Nervous System.

Abs Jour: Ref Zhur-Biol., No 14, 1958, 64816.

Abstract: extremity. It has been shown that the perineural
           sheaths in neuroma have a double-layer structure:
           the inner endothelial layer passes over into a
           thin layer of collagenous fibers. The endothelium
           of the perineurial tube (PT) is connected by pro-
           toplasmic bridges with the connective cellular
           tissue in the fascicle of nerve fibers, and con-
           tains acid and alkali phosphomonoesterase. In
           the connective tissue within the PT and in the
           contents of the perineurial fissure, there are
           many polysaccharides. Enlargement of the PT does
           not occur when the lymphovenous flow from the
           extremity is interfered with. The perineurial
           sheaths formed in the process of the regeneration

Card 2/3

USSR / Human and Animal Morphology.   Nervous System.   S-2

        Peripheral Nervous System.

Abs Jour: Ref Zhur-Biol., 14,1958, 64816.

Abstract: of nerves maintain favorable conditions for the
           alimentation of the nerve fibers. The formation
           of the PT upon the regeneration of the nerve is
           connected with the trophic proceeding from the
           regenerated nerve fiber.

Card 3/3

FUKS, B.B.

1016.   *Intrabronchial dissemination of malignant adenomatosis of the lung (Russian text)*
Fux B. B. *Arkh. Patol.* 1957, 19/4 (46–50 and 89–90) Illus. 3

Report on a case of malignant pulmonary adenomatosis in a 39-year-old man, in whom X-rays revealed caudo-apical spread of the malignant tumour, while no metastases were demonstrable in other organs (only the lymph nodes at the bifurcation were affected). On the basis of this case, mouse experiments were made with ascites carcinoma. The object was to determine whether intrabronchial spread of carcinomata is possible. Nine mice were intratracheally injected with 0.1 ml. carcinomatous ascitic fluid after tracheotomy. Two died shortly thereafter, while 7 died of asphyxia 7–9 days after the administration. Only 2 developed a tumour, cancer cells being demonstrable in the bronchi and alveoli and also in the lymph spaces. In 5 other experiments carcinomatous ascitic fluid was introduced into the lungs through the thoracic wall: carcinomatous pleurisy developed in 3 cases, while in 2 cases cancer infiltrated the lungs.

Brandt – Berlin

Chair Pathol. Anatomy,
Inst. Advanced Training Physicians

AUTHOR   FUKS B.B.   PA - 3181

TITLE   The Dynamic Of Phosphomonesterase in the Process of Myelinization of Nerve Fibre.
(Dinamika kisloy fosfomonoesterazy v protsesse mielinizatsii nervnogo volokna -Russian)

ABSTRACT   · The formation of active acidous phosphomonoesterase round the axon
cylinder during its regeneration was investigated. 25 traumatic
neuromae of peripheral nerves, which were removed in the course
of operations on men, were investigated and experiments with lo
rabbits and lo dogs were carried out. The topography and the acti-
vity of the ferment were investigated on the gluteal nerves of 8
rabbits, 2 dogs and 2 human corpses . The experiments with dogs and
rabbits were carried out in order to determine the time of existen-
ce of active acidous phosphomonoesterase round the axon (neurite).
It was found either to occur a little earlier than the beginning
of myelinizatbn or to coincide with it. We may probably assume that
the occurrence of active acidous phosphomonoesterase in the proto-
plasma of Schwann's cells is related to the beginning of the syn-
thesis and further to the exchange of phospholipides of the my-
elin mantle. Considerable losses of phosphatasis in the case of
a slightly prolonged treatment of the preparations with fatty sol-

Card 1/2

The   Dynamic of Phosphomonesterase in the ^{P}rocess of   PA – 3181
Myelinization of ^{N}erve Fibre.

ving agents (especially in the case of heating) were observed, which
permits us to conclude to a connection of the active ferment with
the lipoid fraction of the myelin mantle.
(With 4 illustration and 5 citations from Slavic publications).

ASSOCIATION   Institute of Plastic Surgery, Novosibirsk
PRESENTED BY ANNICHKOV N.N., Member of the Academy
SUBMITTED   11.6.1956
AVAILABLE   Library of Congress
Card 2/2

FUKS, B.B. (Novosibirsk)

Histochemical study of mucopolysaccharides in sheaths of normal
and regnerating nerves [with summary in English]. Arkh.pat.
20 no.10:59-68 '58   (MIRA 11:12)

1. Iz Novosibirskogo nauchno-issledovatel'skogo institut
VOSKHITO (dir. dots. D.P. Metelkin, nauchnyy konsul'tant temy -
chlen-korrespondent AMN SSSR prof. A.I. Strukov).
         (MUCOPOLYSACCHARIDES, metab.
                normal & regenerating nerve in animals & humans,
                histochem (Rus))
       (NERVES, metab.
                mucopolysacchaides in normal & regenerating nerve
                in animals & humans histochem (Rus))

FOKS, B

4-2-10/18

AUTHORS: Byalo, A., and Fuks, B.

TITLE: Health Technique (Tekhnika zdorov'ya)

PERIODICAL: Znaniye-Sila, 1958, # 2, pp 26-27 (USSR) *33*

ABSTRACT: Six short articles accompanying photos.
1. High frequency irradiator for the even "massage" of tissues.
2. Plastic infant's inhaler cot for an "aerozol" mixture of antibiotics and oxygen. Sick infants often suffer from inadequate "gas exchange" and die from a lack of oxygen.
3. Ultra high frequency gear for healing hypertonic conditions, by irradiation of the solar plexus.
4. New portable electrocardiograph; unlike others which need photographic development, this inks its findings directly onto a strip of record-paper.
5. Universal "aerozol" inhaler, permitting the spraying of the medicament right into the lungs. The patient adjusts action by the lever, to suit her breathing.
6. Ultrasonic apparatus for diagnosing the growth of tumors; acts like radar through reflection from tissues of different density. Now being tested, will be widely used.

Card 1/2

Fuks, B.B

AUTHOR: Fuks, B. B.

20-2-56/60

TITLE: The Histochemistry of the Succinoxidase System of a Normal and a
Regenerating Nerve (Gistokhimiya suktsinoksidaznoy sistemy normal'nogo
i regeneriruyushchego nerva).

PERIODICAL: Doklady AN SSSR, 1958, Vol. 118, Nr 2, pp. 400-403 (USSR).

ABSTRACT: The connection between the respiration and the excitation-process in
the nerve is expressed by data according to which the want of oxygen
of the nerve depends on the frequency of the excitation of the nerve
(reference 17). It may be assumed that the respiration of a resting
nerve is also related to the function of nerve-excitation (reference 6)
In several papers (references 1, 17) the opinion is voiced that the
respiration in a nerve fiber is directly related to the synthesis of
energy-rich compounds. These compounds are later, in the process of
the nerve, consumed. By the study of the part played by respiration
the problem of a possible significance of the biological oxidation
for exchange processes was displaced to a second-order place. These
processes are supposed to guarantee the rebuilding of the axoplasm-
substance and of the medullary sheaths. It is supposed that the labile
oxidase (references 15, 16; = cytochromoxidase according to reference
13) participates in the process of growth of the nerve fiber. Cyto-

Card 1/4

The Histochemistry of the Succinoxidase System of a Normal and a   2o-2-56/6o
Regenerating Nerve.

chromoxidase is one of the enzymes of the succinoxidase system which
catalyzes the oxydation of most of the tissue-substrata (reference 18).
It is to be assumed that the respiration of a resting nerve is also
related to the regeneration of the axoplasm-substance. It may further
be assumed that in the regeneration of the nerve fiber just these ex-
change processes are activated with which under normal circumstances
the new formation of the axoplasm-substance and the medullary sheaths
is connected. Starting from these assumptions the author histochemi-
cally investigated 2 enzymes which form this system in a normal, a
regenerating and a degenerating nerve. Cytochromoxidase and succindehy-
drase were studied in 57 tests with dogs and rabbits (severing of the
Nervus ischiadicus) and in 19 neuromas which were operatively removed
from man. The duration of the tests was 1-25 days and 1-6 months. In
incubations of the sections of a normal nerve cytochromoxidase first
occurs in the nuclei, then in the perinuclear protoplasm and finally
in the entire protoplasm of the endothelial cell of the capillary. In
regenerations cytochromoxidase occurs in the axons and in the myelin
sheaths of the central section in the place of injury. In traumatic
neuroma of man the enzyme only occurs in the capillaries. 24 hours

Card 2/4   after the injury succindehydrase occurred in the axons and their ac-

The Histochemistry of the Succinoxidase System of a Normal and   2o-2-56/65
a Regenerating Nerve.

tivity increased in the myeline sheaths of the 2-3 mm long nerve sec-
tion. When comparing the results first the agreement of the localiza-
tion of the modifications of activity of the two enzymes in a normal
and injured nerve becomes evident. In regenerations the activity of
both components of the succinoxidase system increases just in those
sections of the nerve fiber in which the formation of new nerve bran-
ches takes place. The activation of the process of the biological oxi-
dation topographically and with respect to time agrees with the inten-
sified process of new formation of the axoplasm-substance during the
regeneration. In the same zone the activity of the acid phosphoromonoe-
sterase also increases (reference 4). The obtained results permit the
formulation of the sentence on the connection of the increase in acti-
vity of the succinoxidase system with the processes of growth in the
axonplasm of the regenerating nerve fiber. On the nature of the clubs
at the end of the regenerating nerve fibers two opposed opinions exist
in publications: clubs of growth and clubs of growth-inhibition. Ac-
cording to the author's results the first opinion would be correct.
There are 4 figures, and 2o references, 1o of which are Slavic.

Card 3/4

The Histochemistry of the Succinoxidase System of a Normal and   20-2-56/60
a Regenerating Nerve.

ASSOCIATION: Scientific Research Institute for Orthopedics, Traumatology and
             Plastic Surgery,   , Novisibirsk (Novosibirskiy nauchno-issledovatel'-
             skiy institut ortopedii, travmatologii i vosstanovitel'noy khirurgii).

PRESENTED: August 3o, 1957, by L. A. Orbeli, Academician.

SUBMITTED: August 27, 1957.

AVAILABLE: Library of Congress.

Card 4/4

FUKS, Boris Borisovich; TSELLARIUS, Yu.G., otv.red.; BUSHUYEVA, V.M.,
    red.; MAZUROVA, X.Y., tekhn.red.

[Histochemistry and morphology of the normal and injured nerve;
histochemical study of the mechanisms of nerve development]
Gistokhimiia i morfologiia normal'nogo i povrezhdennogo nerva;
opyt gistokhimicheskogo izucheniia mekhanizmov razvitiia nerva.
Novosibirsk, Izd-vo Sibirskogo otd-niia Akad.nauk SSSR, 1959.
197 p.   (MIRA 13:4)

                        (NERVES)

17(3,4)

AUTHOR: Fuks, B. B.   SOV/20-125-4-61/74

TITLE: Histochemistry of the Phosphomonoesterases During the Re-
            generation and Degeneration of a Nerve After . Injury
            (Gistokhimiya fosfomonoesteraz pri regeneratsii i degeneratsii
            nerva posle povrezhdeniya)

ABSTRACT: Recently papers were published which deal with the localization
            of the acid phosphomonoesterase in a normal and in an injured
            nerve (Refs 3,6,7,9,10,12,15,18,19). This enzyme was found in
            a normal nerve fiber in the axon and in the medullary sheath.
            Several research workers assume that the intensified color-
            ability of the nerve fiber in the central section of the cut
            through nerve is not a result of an intensified fermentative
            activity but the result of the variation of the physico-
            chemical properties of the fibers. The alkaline phosphomono-
            esterase was found in the sheath of Schwann as well as in the
            axon (Refs 3,6,10,15,18). The present paper is to deal with
            the dynamics of the phosphomonoesterases as mentioned in the
            title. The results are to be compared with those obtained by
Card 1/3   the impregnation methods. For this purpose 78 experiments were

Histochemistry of the Phosphomonoesterases During the Regeneration and Degeneration of a Nerve After   Injury

carried out with the cutting through of the nervus ischiadicus of rabbits, cats, and dogs; and the nervus ischiadicus of two persons who died of diseases was used. The preparations were extracted 1,3,6,10,15,20,25, and 30 days and 1,5; 2; 2,5; 4, and 6 months after the operation. 5 variants were tested in order to choose an optimum method of the preparation of cuts. The best results were obtained by the fourth variant: cuts from a recently frozen in nerve, fixation of the cuts in alcohol, rinsing, incubation, and by the fifth variant: film preparation from fresh nerve, fixation ;... etc (see point Nr 4). 11'   : ..Control investigations 1-10 were carried out in order to eliminate the feared (diffusion- and adsorption) artifacts. The comparison of the aforesaid facts with own data and those given in other papers obtained by means of the impregnation method make possible the conclusion that the increase of activity of the acid phosphatase takes place in the zone of an intensified regeneration of neutral branches (in the injured as well as in the new nerves as well as in growth-clubs). The author believes that these facts confirm the

Card 2/3

Histochemistry of the Phosphomonoesterases During the Regeneration and De-   SOV/20-125-4-61/74
generation of a Nerve After . Injury

hypothesis (Ref 11) according to which the metabolism in the
zone of regeneration of nerve fibers is increased and the syn-
thesis predominates. It is a local increase of metabolism
which is not effective in the entire axon. Initially it is
observed even in the case of lacking connection with the nerve-
cellular body. There is, however, no reason for speaking of an
autonomy of this process (Ref 11), since (Refs 10,13) variations
of the fermentative activity take place at the other end of
the cut off neuron in the nerve-cellular body as well.
There are 4 figures, 1 table, and 19 references, 8 of which
are Soviet.

ASSOCIATION: Novosibirskiy institut vosstanovitel'noy khirurgii (Novosibirsk
                Institute of Restitutive Surgery)

PRESENTED: November 19, 1958, by N. N. Anichkov, Academician

SUBMITTED: July 7, 1958

Card 3/3

FUKS, B. B., KOLAYEVA, S. G.

"The Histochemistry of Proteins During Growth Changes and the Regeneration of the Connective Tissue of the Skin and Aorta in Humans and Animals."

report submitted for the First Conference on the problems of Cyto and Histochemistry, Moscow, 19-21 Dec 1960.

Laboratory of Histochemistry, Division of Experimental Biology and Pathology of the Institute of Experimental Biology and Medicine, Siberian Division, Academy of Sciences USSR, Novosibirsk.

VINOGRADOV, V.V.; FUKS, B.B.

System for the differential histochemical analysis of mucopolysaccharides.
Izv.Sib.otd.AN SSSR no.9:168-170 '60.
(MIRA 13:11)

1. Institut eksperimental'noy biologii i meditsiny. Novosibirskiy
meditsinskiy institut.
(Polysaccharides)

DERIBAS, V.I.; FUKS, B.B.; SHISHKIN, G.S.

Activation of lipolytic enzymes in the wall of the human aorta in
atherosclerosis. Dokl.AN SSSR 134 no.2:443-444 S '60.
(MIRA 13:9)

1. Institut eksperimental'noy bilogii i meditsiny Sibirskogo
otdeleniya Akademii nauk SSSR. Predstavleno akad. N.N.
Anichkovym.
(ARTERIOSCLEROSIS) (LIPASES) (ESTERASES) (AORTA--DISEASES)

FUKS, B.B.

Histochemistry of tyrosine and histidine during the regeneration of connective tussues. Dokl. AN SSSR 135 no.3:747-749 N '60.
(MIRA 13:12)

1. Institut eksperimental'noy biologii i meditsiny Sibirskogo otdeleniya Akademii nauk SSSR. Predstavleno akad. V.A. Engel'gardton.
(TYROSINE)   (HISTIDINE)
(COLLAGEN)   (REGENERATION (BIOLOGY))

VINOGRADOV, V.V.; FUKS, B.B.

Differential histochemical determination of mucopolysaccharides.
Arkh. pat. 23 no.2:74-78 '61.
(POLYSACCHARIDES)   (MIRA 14:2)

FUKS, B.B.; LEVIN, Yu.M.

Histochemical and biochemical study of enzymes of the succinic oxidase
system of the cortex and the medulla oblongata in a hemorrhagic collapse.
Vop. pat. i reg. org. krov. i dykh. no.1:133-138 '61.   (MIRA 18:7)

FUKS, B.B.; YASTREBOVA, I.P.

Materials on the histochemistry of connective tissues in regeneration and transplantation. Vop. pat. i reg. org. krov. i dykh. no.1:141-151 '61.

(MIRA 18:7)

FUKS, B.B., doktor med.nauk

Chemistry and scalpel. Nauka i zhizn' 29 no.1:44-46 Ja '62.
(MIRA 15:3)

1. Zaveduyushchiy laboratoriyey gistokhimii Instituta eksperimen-
tal'noy biologii i meditsiny Sibirskogo otdeleniya AN SSSR.
(Cardiovascular research)

FUKS, B.B.; LEYTES, F.L.; DERIBAS, V.I.; SHISHKIN, G.S.

Studying the pathogenesis of atherosclerosis by histochemical
determination of esterases and lipases. Dokl. AN SSSR 143
no.1:245-248 Mr '62.
(MIRA 15:2)

1. Institut eksperimental'noy biologii i meditsiny Sibirskogo
otdeleniya AN SSSR i TSentral'nyy institut kurortologii i
fizioterapii. Predstavleno akademikom N.N.Anichkovym.
(ARTERIOSCLEROSIS)
(CHOLESTEROL METABOLISM)

MESHALKIN, Ye.N.; FUKS, B.B.; STEFANOVICH, L.Ye.; SERGIYEVSKIY, V.S.;
KONSTANTINOVA, I.V.; DEVOYNO, L.V.; MEDVEDEV, I.A.

Using protei:rase-treated collagenous and elastic "carcasses"
from heterologous material for vascular grafts. Izv. Sib. otd.
AN SSSR no.5:129-132 '62.

(MIRA 18:2)

1. Institut eksperimental'noy biologii i meditsiny Sibirskogo
otdeleniya AN SSSR, Novosibirsk.

FUKS, B.B.; KONSTANTINOVA, I.V.; STEFANOVICH, L.Ye.; DEVOYNO, L.V.;
SERGIYEVSKIY, V.S.; FALK, I.G.; MODYAYEV, V.P.

Influence of some factors on the growth and differentiation of the
connective tissue in the regeneration of the cornea, aorta, tendons
and bones in biological frameworks. Dokl. AN SSSR 152 no.5:1260-1262
O '63.   (MIRA 16:12)

1. Institut eksperimental'noy biologii i meditsiny Sibirskogo
otdeleniya AN SSSR. Predstavleno akademikom N.N.Anichkovym.

FUKS, B.B.; KONSTANTINOVA, I.V.; STEFANOVICH, L.Ye.; LUK'YANOVA, I.G.;
TSYGANKOV, L.I.; KOLAYEVA, S.G.; KRASS, I.M.; VAN'KO, L.V.

Specific biosynthesis of antibodies induced by ribonucleic acid from
the lymphatic nodes and spleen of immune rabbits. Dokl. AN SSSR 153
no.2:485-488 N '63.   (MIRA 16:12)

1. Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSR.
Predstavleno akademikom A.N.Belozerskim.

FUKS, B. B.; KONSTANTINOVA, I. V.; KOLAYEVA, S. G.; TSYBANKOV, A. F.; SHUL'GA, V.A.
KRASS, P. M. MAKSIMOVSKIY, L. F.

"Anti-BSA formation initiated in vivo and in vitro by ribonucleic acid from lymps nodes and spleen of immunized rabbits (Histochemical, biochemical and immunological investigation)."

report submitted for 2nd Intl Cong, Histochemistry & Cytochemistry, Frankfurt, 16-21 Aug 64.

Moscow.
Dept of Experimental Biology, Inst of Cytology & Tenetics, AS USSR, Novosibirsk 72.

FUKS, B.B. (Novosibirsk); VINOGRADOV, V.V. (Novosibirsk); SHISHKIN, G.S. (Novosibirsk); MAKSIMOVSKIY, L.F. (Novosibirsk)

Histochemical study of proteins, mucopolysaccharides, certain enzymes and deoxyribonucleic acid in skin wounds in alimentary and alimentary-chemical vitamin C deficiency. Arkh. pat. no.1: 39-47 '64.   (MIRA 17:11)

1. Iz laboratorii gistokhimii (zav. - doktor med. nauk B.B. Fuks) Instituta eksperimental'noy biologii i meditsiny (dir. - prof. Ye.N. Meshalkin) Sibirskogo otdeleniya AN SSSR i laboratorii nukleinovykh kislot (zav. - kand. med. nauk R.I. Salganik) Instituta tsitologii i genetiki (dir. K.D. Belyayev).

FUKS, B.B.; KONSTANTINOVA, I.V.; TSYGANKOV, A.P.

Immunological and histochemical study of the biosynthesis of
specific antibodies induced by ribonucleic acid from the cells
of immunized animals. Vest. AMN SSSR 19 no.12:28-39 '64.

(MIRA 18:4)

1. Institut morfologii cheloveka AMN SSSR, Moskva.

FUKS, B.B.

Immunogenesis and tissue differentiation. Vest. AMN SSSR 20 no.11:
66-80 '65   (MIRA 19:1)

1. Institut morfologii cheloveka AMN SSSR, Moskva. Submitted
July 23, 1965.

FUKS, B.I., professor

Blastomogenic effect of orthoaminoazotoluene during repeated
chloroform treatment. Trudy AMN SSSR 21 no.4:164-170 '52.
                                        (MLRA 10:8)
1. Iz laboratorii onkologii (zav. - chlen-korrespondent AMN SSSR
prof. L.M.Shabad) Instituta normal'noy i patologicheskoy morfologii
AMN SSSR i kafedry onkologii (zav. - prof. B.I.Fuks) Novosibirskogo
instituta usovershenstvovaniya vrachey.
       (CARCINOGENS,
           o-aminoazotoluene with chloroform)
       (TOLUENE, derivatives,
           o-aminoazotoluene, carcinogenic eff., with chloroform)
       (CHLOROFORM, effects,
           carcinogenic, with o-aminoazotoluene)

FUKS, B.I.; PERKIN, E.M.; KAN'SHINA, N.F.

Experimantal histochemical analysis of the development of
ischemic necrosis and a cicatrix of the myocardium. Dokl.AN
SSSR 145 no.5:1154-1157 '62.   (MIRA 15:8)

1. Novokuznetskiy institut usovershenstvovaniya vrachey
i Institut eksperimental'noy biologii i meditsiny Sibirskogo
otdeleniya AN SSSR. Predstavleno akademikom N.N.Anichkovym.
  (HEART—NECROSIS)   (HISTOCHEMISTRY)

ASHKINUZI, Zus' Kivovich; MAMUNYA, Anton Ustinovich; SEMERNYA, Vladimir
    Mikhaylovich; YANOVSKIY, Vitaliy Sergeyevich; MALCHENKO, A.L.,
    doktor tekhn. nauk, prof., spets. red.; FUKS, B.K., red.; PERE-
    DERIY, S.P., tekhn. red.

    [Continuous rapid cooking of starchy raw materials in the distilling
    industry] Nepreryvnoe skorostnoe razvarivanie krakhmalistogo syr'ia v
    spirtovom proizvodstve. Moskva, Pishchepromizdat, 1960. 54 p.
                                                    (MIRA 14:10)
                    (Distillation)

FUKS, D.A., inzh.; NOVODEREZHKIN, V.V., inzh.; SHEYNINA, F.B., inzh.;
        IZRAILEVA, E.S.; DUROV, V.P., inzh.

New method for using storage batteries in electric power stations
and substations. Energetik 12 no.7:27-29 Jl '64.

                                              (MIRA 17:9)

VINOGRADOV, A.; DELONE, B.; FUKS, D. B

Rational approximations of irrational numbers with bounded partial quotients. Dokl.AN SSSR 118 no.5:862-865 F '58.   (MIRA 12:1)

1. Chlen-korrespondent AN SSSR (for Delone).
            (Numbers, Theory of)

10

·6(1)

AUTHORS: Fuks,D.B., and Shvarts,A.S.   SOV/20-125-2-11/64

TITLE: Cyclic Products of the Polyhedron and the Imbedding Problem
           (Tsiklicheskiye stepeni poliedra i problema vlozheniya)

ABSTRACT: Let K be a polyhedron, p -- prime number; K^p = Kx...xK be the
              product of p polyhedra K; let $t:K^p \to K^p$ be a transformation with
              the period p defined by the formula $t(x_1,x_2,\dots,x_p) =$
              $= (x_2,\dots x_p,x_1)$; let $Z_p(K)$ be the p-th cyclic power of the
              polyhedron K, i.e. that space arising from K^p if the points
              equivalent with respect to the transformation t are identified;
              let $\pi:K^p \to Z_p(K)$ be the natural projection; let $i:K \to K^p$ be the
              diagonal imbedding; $i(x) = (x,\dots,x)$; i' $=\pi i$.
              The author calculates the spectral sequence of the cohomologies
              with compact carriers with respect to the modulus p of the
              regular covering $\pi:K^p \setminus i(K) \to Z_p(K) \setminus i'(K)$. Some applications of

Card 1/2

Cyclic Products of the Polyhedron and the   SOV/20-125-2-11/64
Imbedding Problem

the obtained results are mentioned. The results partly overlap
with those of Giorgiutti $\sqrt{\text{Ref } 6\_7}$ and Wu Wen-tsün $\sqrt{\text{Ref } 1,2,3\_7}$.
There are 8 references, 2 of which are French, 2 American,
1 Japanese, and 3 Chinese.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova,
Voronezhskiy gosudarstvennyy universitet (Moscow State University
imeni M.V.Lomonosov; Voronezh State University)

PRESENTED: November 28, 1958, by P.S.Aleksandrov, Academician

SUBMITTED: November 23, 1958

Card 2/2

FUKS, D.B.

Homotopic duality. Dokl. AN SSSR 141 no.4:818-821 D '61.
(MIRA 14:11)
1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.
Predstavleno akademikom P.S. Aleksandrovym.
(Topology)

FUKS, D.B. (Moskva)

Natural mappings of functors in the category of topological
spaces. Mat. sbor. 62 no.2:160-179 O '63.   (MIRA 16:10)

Fuks, E.S.

CH Fuks, E. S.: Krashenie khlopchatobumazhnoi pryazhi
(Dyeing of Cotton Yarn). Moscow: Gosudarst. Nauch.-
Tekh. Izdatel'stvo Legkoi Prom. 1952. 207 pp.

FUKS, Emmanuil Solomonovich; ARKHANGEL'SKIY, S.S., redaktor; NEKRASOVA
O.I., tekhnicheskiy redaktor.

[PK-1 yarn dyeing apparatus]Priazhekrasil'nyi apparat PK-1.
Moskva, Gos.nauchno-tekhn.izd-vo Ministerstva promyshl.tovarov
shirokogo potrebleniia SSSR, 1955. 107 p.   (MLRA 8:10)
          (Dyes and dyeing--Apparatus)

POLYANSKAYA, O.V.; FUKS, E.Ye., kand.med.nauk

Organizing the medical technicians' work in Moscow Maternity
Hospital No.10. Zdrav. Ros. Feder. 5 no.9:7-10 S '61.
(MIRA 14:9)

1. Iz rodil'nogo doma No.10 Moskvy.
(MOSCOW—HOSPITALS—STAFF)

POLYANSKAYA, O.V., kand.med.nauk; FUKS, E.Ye. (Moskva)

Improved efficiency in medical documentation in the maternity
home. Sov.zdrav. 21 no.10:58-59 '62.   (MIRA 15:10)

1. Iz rodil'nogo doma No.10 (glavnyy vrach O.V.Polyanskaya) Moskvy.
         (MATERNITY HOMES--ACCOUNTING)

TULYAGANKHODZHAYEV, A. (Tashkent); FUKS, G., obshchestvennyy
        kontroler (Tashkent)

Corrections dictated by life. Sov. torg. 36 no.8:41-42
Ag '63.   (MIRA 16:11)